

# The Pseudo-ulcer



## Ulcer-like symptoms: no G.I. pathology

The patient is convinced it's an ulcer. However, symptoms are not quite typical, and x-ray findings are negative. These findings and the results of additional diagnostic procedures exclude an organic basis for the patient's complaints. A diagnosis of "upper functional gastrointestinal disorder" is made, which is supported by the fact that episodes of painful symptoms coincide with episodes of excessive anxiety, as indicated by the history.

It may be useful to explain to the patient the mechanism by which emotions upset normal G.I. functioning, resulting in hypersecretion and hypermotility and thus causing such symptoms as nausea and epigastric pain. In upper functional gastrointestinal disorders, counseling by the primary physician can often help the patient to understand how excessive anxiety may cause "ups and downs" of G.I. symptoms.

A disproportionate number of patients seen by the general practitioner suffer from functional disorders, as do more than half of those seen by the gastroenterologist.<sup>4</sup> Where milder cases may respond to conse-

lating alone, if symptoms are severe and disabling to any degree, a suitable regimen may include medication to reduce the symptoms and the excessive anxiety that often provokes these distressing symptoms. In these cases, Librax as an adjunct can greatly contribute to the course of therapy. Its dual action can offer relief of both painful symptoms and excessive anxiety, because each capsule contains 5 mg chloralazepoxide HCl and 2.5 mg chlordiazepoxide Br. The anti-anxiety drug Librax® (chloralazepoxide HCl) makes Libra exceptional among drugs for certain gastrointestinal disorders associated with excessive anxiety; the chlordiazepoxide (Quanzan™) component furnishes sleep-inducing anti-retroviral-antipsychotic action. Dosage is flexible; it may be adjusted according to your patient's requirements within the range of 1 or 2 capsules three or four times daily, up to 8 capsules daily in divided doses.

An adjunct  
in anxiety-related upper  
functional G.I. disorders

**Librax®**

Each capsule contains 5 mg chloralazepoxide HCl  
and 2.5 mg chlordiazepoxide Br.

Before prescribing, please consult complete product information, a summary of which follows:

**Indications:** Symptomatic relief of hypersecretion, hypermotility and anxiety and tension states associated with organic disease of the upper digestive tract; and as an adjunctive therapy in the management of patients with Barrett's, duodenitis, irritable bowel syndrome, spastic colitis, and mild ulcerative colitis.

**Contraindications:** Patients with glaucoma; prostatic hyperplasia and hypertension; intestinal obstruction; known hypersensitivity to chloralazepoxide hydrochloride and/or chlordiazepoxide hydrochloride.

**Warnings:** Caution patients about possible combined effects with other CNS depressants. As with all CNS-active drugs, caution patients with known or suspected organic disease, complete mental alertness (e.g., operating machinery, driving). Through physical and psychological dependency have been reported on recommended doses, use caution. In addition, Librax may cause drowsiness (chloralazepoxide hydrochloride) to known addiction-prone individuals or those who have increased dosage; withdrawal symptoms (including convulsions), dependence, and rebound have been reported with Librax. When chloralazepoxide hydrochloride is used alone, draw-

pregnancy, lactation, or in women of childbearing age requires that its potential benefits be weighed against its possible hazards. As with all anticholinergic drugs, an inhibiting effect on lactation may occur.

**Precautions:** In elderly and debilitated, limit dosage to minimal effective amount to prevent development of ataxia, oversedation or confusion (no more than 1 capsule per day initially; increase gradually as needed and tolerated). This drug generally not recommended, if combination therapy with other psychotropics seems indicated, carefully consider individual pharmacokinetic effects and interactions of potentially drugs such as MAO inhibitors and phenothiazines. Observe usual precautions in presence of impaired renal or hepatic function and in children and teenagers (e.g., excitement, stimulation and acne rage) have been reported in psychiatric patients. Employ usual precautions in treatment of patients with evidence of impending depression; suicidal tendencies may be present despite positive measures necessary. Variable effects on blood coagulation have been reported; very rarely in patients receiving the drug and oral anticoagulants, causal relationship has not been established clinically.

**Adverse Reactions:** No side effects or manifestations not associated with other components have been reported with Librax. When chloralazepoxide hydrochloride is used alone, draw-

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# Medical Tribune

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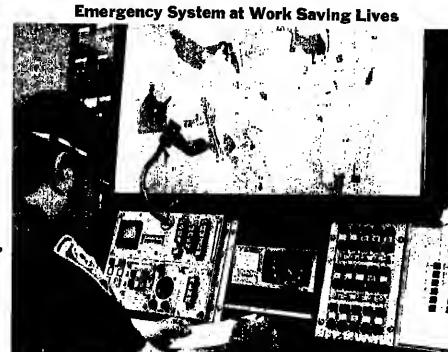
Wednesday, February 5, 1975



**ARTIFICIAL BETA CELL** now being developed at USC has reached a stage where unit's tiny glucose sensor can monitor blood of patients in diabetic crises. Dr. Samuel P. Beaman reports next step will be control with extracorporeal use of 5-part unit — sensor plus computer to translate signal, micro-pump, power supply, insulin reservoir. Once computer is programmed for individual patient, Calif. group plans implantation of miniaturized unit. Dr. Beaman thinks diabetic may need only 10 u. or less of insulin daily if hormone can be emitted in right amounts at stress times.

**NHI FUNDING** — Increased tobacco and alcohol taxes, variations on the tax-credit idea, revisions on other types of excise taxes, and a value-added tax are all being studied as possible sources of revenue for a national health insurance program, Rep. Al Ullman, Acting Chmn. of House Ways & Means told **MT**. Rep. Ullman has said he does not favor further extensions of the payroll tax.

**NO NHI IN '75?** — "Even if legislation were proposed this year, it would be 1977 at the earliest before national health insurance is implemented," a Congressional staffer told **MT**.



Only 20 percent of the country has been able to afford the centralized emergency phone system, as in New Haven, above. Yet at least half of all bent attack and accident victims die before they reach the hospital as a result of injuries in communications and transportations.

## New US Role Is a Bright Spot In 'Bleak' Car Deaths Picture

By LINDA MURRAY  
*Medical Tribune Correspondent*

Although deaths from traffic accidents went down last year—an impressive 18 per cent drop for the first 11 months of '74—the credit goes to the slackened 55-mile speed limit, rather

Part I

than any strides in the development of emergency medical services. "For most of the country," confirms Dr. David R. Boyd, former chief of the Illinois Division of EMS and now director of HEW's Division of EMS, "the picture is still pretty bleak."

In 1972, more than 115,000 people

died, 400,000 more were permanently disabled, and the loss to the economy was estimated at over \$28 billion. The average American community returns only about one in 20 trauma victims to their former lifestyle.

But now there are some signs that things may take a turn for the better, even in rural and wilderness areas.

Most significant is the new leadership role assumed by the federal government under the Emergency Medical Services Systems of 1973, which designates HEW's Division of EMS as the lead agency, responsible for coordinating all federal activity and spending \$185 million over a three year

*Continued on page 27*

By MICHAEL HERRING  
*Medical Tribune Staff*

**NEW YORK**—As the A. H. Robins Company is changing the tails on its controversial Dalkon Shield IUD from multifilament to monofilament, Dr. Howard Tatum of the Population Council is preparing his report to the F.D.A. on the tail's bacterial "wicking action" for publication in *J.A.M.A.* Two of the F.D.A.'s own committee members have resigned in protest of the lifting of the moratorium on Dalkon sales, and population-control agencies still refuse to use it, with no immediate plans for trying out the new tails.

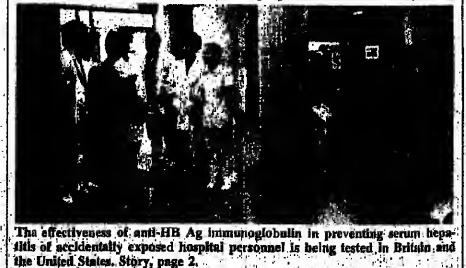
"I think the full report of the experiments, along with the electron micrographs, will clarify a lot of misunderstanding about the Dalkon Shield," Dr. Tatum, who is associate director of the Population Council's Biomedicine Division, told **MEDICAL TRIBUNE**. "Right now, I can't go the final step. I can't say 'Here's a pregnant patient who had a fatal second-trimester septic abortion while wearing a Dalkon Shield.' And here's proof that the bacteria invaded the uterus in ascending in the tiny interstices of the multifilament tail."

"I can't prove that they did," Dr. Tatum said, "nor can it be proved that they didn't." The structure of the Dalkon tail sets it apart from all other IUDs in use, he observed, and, he said, makes it more prone to association with infection.

Dr. Tatum has shown in laboratory experiments that not only does the multifilament tail provide capillary action for conducting an aqueous dye upwards within the sheath around the filaments, but it also can serve as a wick for a saline solution of *E. coli*.

*Continued on page 18*

## Serum Hepatitis Prophylaxis Tested



The effectiveness of anti-HB Ag immunoglobulin in preventing serum hepatitis of accidentally exposed hospital personnel is being tested in Britain and the United States. Story, page 2.

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## Anti-HB Ag Immunoglobulin Staves Off Clinical Hepatitis B

BY JAMES MAGGIE  
*Medical Tribune Staff*

MILAN, ITALY—A British team has reported successful prevention of the appearance of clinical hepatitis B following accidental inoculations with antigen bearing material, through prophylactic use of anti-HB Ag immunoglobulin.

Reporting the first results of an uncontrolled Medical Research Council trial involving 110 persons with inoculation injuries, Dr. Sheila Polakoff said the average interval from accident to prophylaxis was six days. More than 80 per cent of the participants were given prophylaxis within eight days of the accident. The trial began in September 1973.

### 2 of 61 Develop Jaundice

Accidents included transfusion of blood or blood products, penetration of the skin, contamination of the conjunctival sac or cuts or abrasions of the skin involving material containing HB Ag, whether blood, other body fluids, or laboratory reagents, she told a symposium on viral hepatitis at the International Association of Biological Standardization meeting here.

Of 61 study participants whose accidents involved penetration, and who were followed, to date two have developed jaundice with hepatitis B antigenemia. In one the illness began 17 weeks after the accident. The attack was mild and the antigenemic transient; the patient made a full clinical recovery within five weeks of the onset.

The first indication of illness in the other was detection of HB Ag and raised aminotransferase levels in a follow-up sample taken 18 weeks after the accident; jaundice and other manifestations developed shortly afterwards. The attack was recent and the course of the illness is still being monitored.

### 4 Globulin Studies On In US

Currently, four double-blind studies are underway in the United States to test the efficacy of hyperimmune globulin in preventing clinical hepatitis B.

Three of these studies are under the direction of the National Heart and Lung Institute's Division of Blood Diseases and Resources, including trials of the globulin in renal dialysis patients, patients with needle stick and other accidental exposure, and transfused patients. The VA also has a double-blind study underway.

[Dr. Harvey G. Klein, project officer for the NHLI studies, noted that if early results indicate the hyperimmune globulin is effective, a Data Safety Monitoring Committee headed by Douglas M. Surgeon, Ph.D., former dean of the State University of New York's Buffalo School of Medicine, will halt the study and release the data.]

Dr. Polakoff, who is associated with the epidemiological research laboratory, Central Public Health Laboratory, London, explained that when an accident that meets the study criteria is reported a sample of the inoculated material is tested for HB Ag. If a sample is not available, documentary

evidence of the presence of HB Ag by previous tests of the material or, if the source is a person, of samples taken at any time in the four weeks before the accident, is accepted.

A serum sample, taken from the person who sustained the accident, is also tested by routine methods for HB Ag and anti-HB Ag. If the results of these tests are negative and the immunoglobulin can be administered within approximately two weeks of the accident, the subject is enrolled in the study. A 500 mg. dose of the material is given intramuscularly and the subject is observed for any immediate reactions.

Each subject is followed-up for one year after the accident. Serum samples are taken, usually at four weekly intervals in the first six months; two further samples are taken, one at nine months and the other at about one year after the accident.

In the first year of study 110 persons were enrolled. Most of the participants were nursing, medical or laboratory staff; two were patients who had been infused with a blood product later found to be contaminated. Of the 110 accidents, penetration of

the skin accounted for more than half. There was no evidence of infection among subjects who contaminated abrasions or ingested infected material.

### Anti-HB Ag Detected in 3

None of the participants appears to have developed asymptomatic HB Ag carriage, but anti-HB Ag was detected by counterimmunoelectrophoresis in sera from three, who had no other evidence of infection, at 18, 20 and 23 weeks after the accidents. In one case anti-HB Ag was transitory; in another it is still present 20 weeks after it was first detected; in the third case it was detected in the most recent specimen. Four subjects each had a notably raised aminotransferase level in one follow-up specimen—one of 14 weeks, two at approximately 20 weeks and one at 27 weeks after the accident; none of the four had any other evidence of infection.

"These are of course preliminary results; further laboratory tests which will be made at the end of the study may reveal evidence of infection that could not be detected by the test methods in routine use," Dr. Polakoff concluded.

Co-author was Dr. W. d'A. Maccock, The Lister Institute of Preventive Medicine, Elstree, Herts, United Kingdom.

## Lessons Gang Agley



"Something specific to the alcohol molecule" causes addiction since it forgets well-learned lessons, according to Dr. Gerhard Freund (shown with intubated mouse), of University of Florida.

## Laparoscopy 'Best' of 4 Sterilization Routes

*Medical Tribune World Service*

Buenos Aires—Laparoscopy appears to be superior to colpotomy, culdscopy, or laparotomy for sterilization of women who have not recently been pregnant, according to a study by the International Fertility Research Program (IFRP).

Complications of the four procedures during surgery and in the first to eight postoperative weeks were reported at the Eighth World Congress on Fertility and Sterility by Dr. William E. Brenner and David A. Edelman, PhD.

They evaluated the results of 401 culpotoscopies, 799 colpotomies, 482 laparoscopies, and 279 laparotomies performed in 11 American institutions from October, 1972, to December, 1973.

The most common operative difficulty with endoscopic methods was inadequate visualization of the tubes. This occurred in 3.5 per cent of culdoscopy and 2.5 per cent of laparoscopy.

Blood loss greater than 100 ml was more common with both vaginal methods.

Postoperative pelvic infections were more frequent with the vaginal methods—6 per cent with culdscopy and 4.5 per cent with culpotomy.

Inciacis complications were more common with the abdominal approaches.

Operative and hospitalization times were significantly shorter with the endoscopic methods, and the proportion of women resuming normal activities within four weeks of sterilization was higher.

While technical difficulties, operative complications, surgical and hospitalization times, and resumption of activities were similar with laparoscopy and

culpotoscopy, pelvic infection was more common with culdscopy.

Dr. Brenner is director of IFRP research and training and Associate Professor at the University of North Carolina. Dr. Edelman is on the staff of the University of North Carolina (IFRP).

### Treatment of Sterility

► A Japanese physician reported that of 100 sterile women treated with clomiphene citrate, ovulation was induced in 84 and 39 became pregnant.

Dr. Taro Shimomura, of Kitano Hospital, Osaka, said that the patients induced 65 with primary sterility. Thirteen of the 100 patients complained of infrequent ovulation; 26, anovulatory menstruation; 55, first-grade amenorrhea, which responded to progestin, with bleeding; and six,

secondary amenorrhea, which responded to estrogen-progestrone, with bleeding.

Clomiphene citrate was given on the fifth day of the cycle following either spontaneous or induced bleeding. The initial dose was 50 mg. in one tablet for five days. When ovulation was induced, the drug was not given in the next cycle, and carryover effects were observed.

When ovulation was not induced in the observed cycle, 50 mg. of the agent was given daily for five days after induced bleeding.

When ovulation was not induced in the first cycle, the dosage was increased to 100 mg. daily for five days in the next period.

Co-worker in the study was Dr. Michio Kitagawa.

## Thin Fiberscope Facilitates Studies Of Esophagus, Stomach, Duodenum

*Medical Tribune World Service*

Mexico City—In endoscopic examination of the esophagus, stomach, and duodenum, a fiberscope that is about half the standard size has shown significant advantages, it was reported at the Third International Congress of Gastrointestinal Endoscopy.

This instrument, Olympus GIF-P, with a tube diameter of 6.8 mm can be passed with little premedication. It was originally developed for esophageal cancer surveying in Japan, and has been widely employed there. Initially, it was brought to the United States for pediatric endoscopy.

Also, Dr. Morrissey said, it has been found useful for following healing in patients with esophagitis, erosive gastritis, and gastric or duodenal ulceration, and for observing effects of drugs in peptic ulcer healing.

The instrument is of special value in the examination of patients with esophageal or pyloric narrowing

in adults a little over a year ago and now have what I believe to be the only series so far reported."

On the basis of experience in more than 100 patients, the instrument was found to be preferable for the examination of patients with severe cardiac or pulmonary disease, those who must be examined in bed, and those who are examined in bed, and those who are extremely apprehensive or otherwise intolerant to examination with the normal-size endoscope.

Also, Dr. Morrissey said, it has been found useful for following healing in patients with esophagitis, erosive gastritis, and gastric or duodenal ulceration, and for observing effects of drugs in peptic ulcer healing.

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## Cool-Off Drive In Israel May Hit Top MDs

*Medical Tribune World Service*

TEL AVIV—Some of Israel's outstanding physicians may be coming victims of the Government's drive to "cool off" an overheated economy."

One way has been to take money out of circulation by cracking down on income-tax evaders, and a well-known physician at the Hadassah Medical Center, Jerusalem, has become the first to be tackled in this effort.

Another way has been to crack down on private practice. Although "socialized medicine" exists in theory in Israel, a few hospital department heads have been quickly allowed to practice privately in their homes and private offices. This applied equally to Government, Kupat Holim (Sick Fund), and public hospitals. The reason was that the highest-paid staff doctor in a hospital in Israel rarely has take-home pay of more than 2,000 Israeli pounds (about \$332)—less than that of most skilled laborers.

### Privileges for Top Doctors

To keep outstanding physicians, as well as others, from emigrating from Israel, they were granted various tax benefits, such as car allowances, telephone allowances, and professional literature allowances.

Moreover, it was tacitly agreed to allow such physicians to practice privately and to admit their patients to their hospitals out of turn and without hospital charges in most cases. (Since most Israelis are members of Kupat Holim, the question of hospital fees rarely arises.)

Dr. Atzman also noted that the number of Israelis 65 years old or more, had increased from 3.9 per cent of the population in 1948 to 5.4 per cent in 1964, and to 7.9 per cent in 1973.

Many other physicians, who never received such sanction, followed the same practice, with the heads of a various health networks turning a blind eye.

This "official blindness" went on for years, although it was well known that the "private practice" of some of these doctors consisted of nothing more than a superficial examination in the doctor's private office with the understanding that the patient would be admitted the next day to the hospital without having to face a long line and an impartial admissions doctor.

Research has indicated there may be more DMT in schizophrenics than in normal people. Dr. Smythies said, DMT was converted from brain tryptamine, by enzyme action, he said.

If its incrimination in schizophrenia is substantiated, therapy designed to limit the amount of the enzyme causing production of the DMT might be developed, he observed.

Therefore, many department heads have had an unwritten but clearly understood law: a certain fee is cash without a receipt, or three times that amount if a receipt is given.

The practice has been so widespread, especially in Kupat Holim, that its director-general, Asher Yadin, recently, said he was willing to pay each department head 50 per cent above his present take-home pay if he would give up his private practice.

Wednesday, February 5, 1975

## Treatment Instead of Jail

*Medical Tribune World Service*

MEXICO CITY—Initial trials in animals and fresh autopsy material by West German investigators indicated that the argon laser beam may be superior to electrocoagulation in the treatment of certain lesions of the gastrointestinal tract.

"I have to say 'may be,'" Dr. Peter Frithmorgen, of the University of Erlangen-Nuremberg, told the Third International Congress of Gastrointestinal Endoscopy here, "because our results up to now are based on acute experiments. We have only recently started chronic experiments with a flexible laser carrier."

### New Avenues of Application

"Keeping in mind that effects in the cat intestine or in dead human tissue cannot be extrapolated to live human tissue pulsing with blood, it nevertheless appears evident that new avenues of application of photocoagulation within the framework of gastroenterologic endoscopy have been opened for the treatment not only of varices, hemangiomas, and bleeding lesions but also for the possible destruction of benign and malignant tumors."

The argon-laser beam produced tissue reactions of edema, conglutination, and charring in the gastrointestinal tract with a selective effect on tissues from its various parts, Dr. Frithmorgen said.

Tissue resection was found to be dependent upon the power of the beam applied and the duration of application with maximum coagulation in the therapeutic range taking place in the submucosa.

## DMT Found in Man, May Be Key to Some Schizophrenia

*Medical Tribune World Service*

MELBOURNE—The manufacture of LSD-type drug in the brain may be the key to the cause of several mental illnesses, Dr. John Smythies, Professor of Psychiatry at the University of Alabama, told an international symposium on schizophrenia here.

The powerful hallucinogen dimethyltryptamine (DMT), thought previously to exist in plant life only, has been found in man, he said.

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### Birth Month Factor

► A Melbourne psychiatrist presented survey results supporting the hypothesis that date of birth may be a factor in development of schizophrenia.

Dr. Ivor H. Jones, first assistant in the Melbourne University's Department of Psychiatry, reported that a survey

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## Tests Support Argon Laser For GI Lesions

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# Apresoline... (hydralazine) part of the Hypertension Task Force "plan of action"

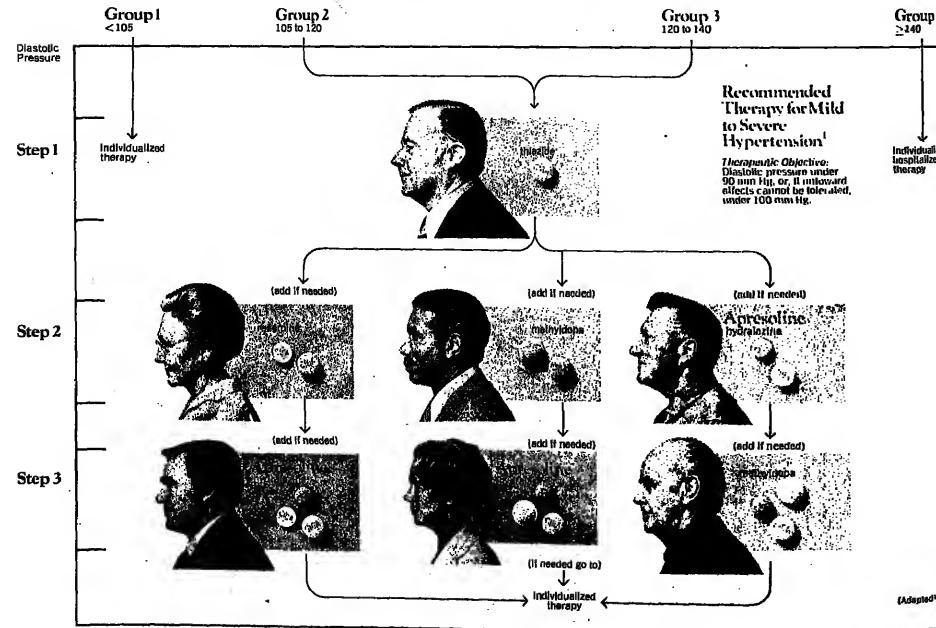
In September 1973, Task Force I of the National High Blood Pressure Education Program recommended a series of antihypertensive regimens for groups with hypertension ranging from mild to severe. Hydralazine—used in combination with sympathetic-inhibiting and/or diuretic antihypertensive

agents—was a specific recommendation for "second step" and "third step" therapy in patients with diastolic pressures ranging from 105 to 140 mm Hg.

Hydralazine played a prominent role in all Task Force regimens because of its compatibility with most any antihypertensive regimen. For

Apresoline can be combined advantageously with nearly all diuretics and sympathetic inhibitors.

Reference: J. Report of Task Force I, National High Blood Pressure Education Program: Recommended Regimens for a National High Blood Pressure Program. Data Base for Effective Antihypertensive Therapy. Sept. 1, 1973. OHEW Publication No. (NIH) 74-503.



**Apresoline® (hydralazine)**  
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C I B A

Wednesday, February 5, 1975

MEDICAL TRIBUNE

## Check, Double Check Breast Ritual 'Still Best'

*Medical Tribune Report*

BOSTON—A combination of self-examination and twice-a-year checkups by a physician is still the most effective method for the early detection of breast cancer, Dr. Richard Wilson told a Harvard Medical Society symposium here.

"I'm afraid this somewhat quaint ritual is here to stay until we have a no-fall test, such as a blood test," he said.

Dr. Wilson, who is Associate Professor of Surgery at the Peter Bent Brigham Hospital, pointed out that although xeroradiography and thermography are effective for diagnosis in patients who are at risk because of their age, they have not proved their worth when used for the younger woman.

"There is a great danger today to put too much faith in these techniques," Dr. Wilson warned the audience of students and physicians.

He reminded them that there is a great deal of fibrocystic disease in most breasts and that the breasts change constantly through the monthly cycle.

"The real job is to decide that when you detect a mass for concern," he remarked.

### More Aspirations In Office

Dr. Wilson said that he is doing "more cystic aspirations in my office than ever before; otherwise I biopsy all mass lesions—regardless of what the screening says."

Dr. Lester Kalisher said that while xeroradiography can reveal a cancerous or precancerous lesion before it becomes palpable, the barely palpable 2-cm. mass today is considered a late symptom.

At the Massachusetts General Hospital, where he is an instructor in Radiology, xeroradiography is used in women who present symptoms or are considered to be at high risk because of family history, age, or earlier lesions.

"What we look for are the microcalcifications without mass," Dr. Kalisher said. "Eighty per cent of these malignancies have such calcification."

Physicians at M.G.H., he added, also look for asymmetric duct patterns—unusual duct outlines that appear on one side of the breast and not on the other, and are easy to spot by xeroradiography because both sides are presented at the same time.

Of the 1,315 referrals for xeroradiography made at the hospital so far, he reported, 125 were recommended

for biopsy. Sixty-four of the lesions proved malignant, 33 benign, and the rest were not biopsied.

Dr. Norman L. Sndowsky, radiologist in chief at the Faulkner Hospital, said that thermography is the preferred diagnostic tool at his institution.

Thermography picks up some carcinomas that xeroradiography does not, he said, and further, the method is more practical for annual examinations. It takes little time—about 10 minutes—and is so inexpensive to use that thermography does not charge for it.

Charges for a xeroradiography examination in Boston, it was noted, range from \$50 to \$100.

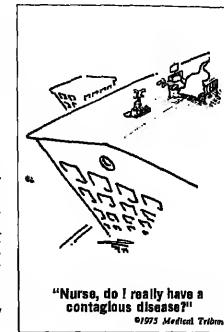
Initial costs for installation also differ considerably, although in the other direction, the seminar was told. The

### Cancer Exams Required

*Medical Tribune World Service*

SOFIA, BULGARIA — Examinations for cancer, including a cytological checkup, are obligatory every second year for all Bulgarian women, starting this year.

In the past three years nearly half of all women over 30 have been examined, resulting in four times as many diagnoses of cancer as in the previous period and eight times as many patients identified with cancer in its very early stages.



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## Sex Hormone Combo Proposed for Male Pill

*Medical Tribune World Service*

MELBOURNE—Dr. Michael Briggs, director of biochemistry at the Alfred Hospital, and Dr. Maxine Briggs, assistant medical superintendent, said that a combination estrogen-androgen could be the answer to the search for a safe and effective male contraceptive pill free of the side effects of loss of libido and testicular atrophy.

Dr. Michael Briggs related that he became interested in this approach when he discovered that two elderly osteoporosis patients who were taking an estrogen-androgen combination developed severely reduced sperm production.

Then, five healthy volunteers were selected and a trial started with two

pills being taken daily at meals. By day 63 of hormone treatment, four of the five men had become infertile, and during the 18th week, the fifth patient also became infertile.

### No Pregnancies in 16 Weeks

The treatment was maintained for 34 weeks and the volunteers' wives went off their oral contraceptives from week 18. No pregnancies resulted in 16 trial weeks. Sperm production was back to normal within five weeks after discontinuation of hormone treatment.

As a control for questions on sex drive, the volunteers were given placebo tablets for three weeks at the start of the course.

Two volunteers reported decreased libido in the first eight weeks, which included the placebo period, but normal libido for the remainder of the study.

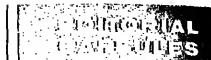
Another man reported increased libido during the second half of the treatment period, while he and another subject experienced a reduction in libido after treatment was stopped.

Three men reported occasional mild nausea while they were taking the pill.

Dr. Briggs said there were no changes in skin, hair, breasts, or urination.

With further refinement, he said, the pill could be developed to be taken less frequently—every other day or a few times every two weeks.

Wednesday, February 5, 1975



*brief summaries of editorial and comments in current medical and scientific journals.*

### Disaster Management

"... if a fully loaded aircraft flying over a city should crash on a residential area or in the city centre, it could produce a casualty list approaching 10,000. Such a disaster would require the help of the armed forces and their medical services. Thought must also be given to the possibility of nuclear disaster. This is again an area where there is very little experience, but every hospital should have some idea how it would cope with decontamination after nuclear fall-out—largely a matter of providing a special area with a plentiful supply of water." (Special article, David Caro; *The Lancet* 2:1309, Nov. 30, 1974)

### Delay in Energy Sources

"Consumption of energy goes on unabated in spite of a recession, higher prices, and presidential appeals. Domestic reserves of hydrocarbons are being depleted rapidly and the stage is being set for empty gasoline pumps, cold homes, and large-scale unemployment unless there is a drastic change in attitudes soon. A major factor is the long time span involved in creating new sources of energy...."

"The first reactor went critical in December 1942. In 1973, nuclear energy accounted for only 1 percent of the nation's energy consumption. Ten years from now, nuclear energy will meet at most 7 percent of the nation's needs...."

"Thus, for at least the next decade, energy horizons will be limited by oil, natural gas, and coal. But available domestic supplies of oil and gas are diminishing, at the rate of 4 to 6 percent per year for oil and about 7 to 8 percent per year for natural gas...."

"Perhaps the most serious and certainly the least recognized problem is in the supplies of natural gas. It heats 55 percent of the nation's homes, is widely used as a feedstock for petrochemicals, including fertilizer, and is by far the largest source of energy for industry... equivalent to that of about 5 million barrels of oil. National policy accords priority to residential demand for natural gas. The rate of decay of supplies is such that by 1980, with a few exceptions, industry will be prevented from using natural gas. This would have enormous effects on the economy."

"To make good the energy deficit due to decay of natural gas alone, a doubling of coal production during the next 6 years would be required. But to open a new underground mine requires about 5 years. The quickest path toward relief is expansion of surface mining of low-sulfur coal in the Rocky Mountain States. But with various delays connected with changes from gas or oil to coal and with environmental consequences, heaven only knows when the country will emerge from the years of travail and discontent that lie ahead." (Editorial, Philip H. Abelson, *Science* 187:17, Jan. 10, 1975)

Wednesday, February 5, 1975

MEDICAL TRIBUNE

## Blunt Chest Trauma Cited As Cause of Pneumatoceles

*Medical Tribune Report*

GALVESTON, Tex.—Traumatic lung and paramediastinal pneumatoceles are "not well appreciated" as a manifestation of nonpenetrating chest trauma, according to a radiologist at the University of Texas Medical Branch.

These lesions are "definite, acutely formed, primary structural manifestations" of injury, and not secondary lesions—that is, they do not result from the resolution of a pulmonary hematoma—according to Dr. Charles J. Fagan, Associate Professor of Radiology.

"Awareness of this fact," he said, "will explain the (common) finding of a cyst, often containing an air-fluid level, on the initial or emergency room roentgenogram" of patients who have suffered nonpenetrating chest trauma, most commonly from an automobile accident.

Hemoptysis frequently follows the accident and may be seen during the initial physical examination of the patient, he noted.

In general, Dr. Fagan said, patients are asymptomatic, and the pneumatoceles eventually disappear with no treatment; they last from about one week to as long as three months.

The roentgenographic appearance of the traumatic pneumatoceles varies according to its location, whether it holds blood, and whether it is associated with a pulmonary contusion, he observed.

It may be completely opacified and appear as a solitary pulmonary nodule, like that of a hematoma, he said, but

"more commonly, the traumatic lung cyst is represented by an isolated air-fluid level in the lung parenchyma, and the actual margin of the pneumatocele, which is composed of compressed or contused lung parenchyma, is either imperceptible or quite thin."

The pneumatocele, he added, may be obscured if the associated pulmonary contusion is extensive. It can be observed "with or without air-fluid level" about three to six days later, after the contusion has been resolved.

Dr. Fagan also noted that an injury on the left side of the chest may produce a pneumatocele on the right, and an injury to the anterior wall a pneumatocele in the posterior.

### New Japanese Audiovisual Teaching Aid



A Japanese medical student uses one of the new audiovisual units for teaching x-ray diagnosis developed by the Japan Research Center. She pushes a button to turn on a physician discussion of the x-ray she is studying.

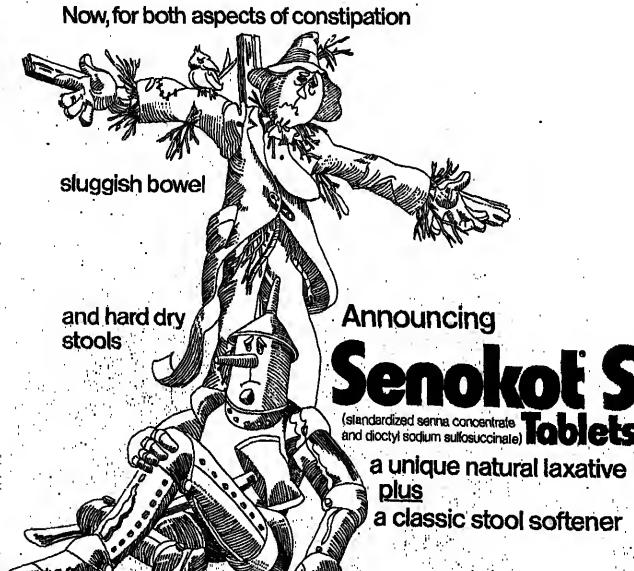
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## Induced Abortions Reported To Boost Risk of Spontaneous

Medical Tribune World Service

PRAGUE.—Artificial termination of pregnancy greatly increases the risk of a subsequent spontaneous abortion, Prof. Alfred Kotásek, head of the Gynaecological and Obstetrical Clinic of Charles University, Prague, told the Fourth European Congress of Perinatal Medicine here.

It also enhances the likelihood of premature births and ectopic pregnancies, he said. "Abortion frequently reduces women's future reproductive capability and affects her emotional and sexual life."

He warned that in a review of the literature, "a great sum of serious morbidity following legal artificial termination of pregnancy has been noticed and described in many papers." Most clinics, he said, lose sight of their patients soon after the operation, but long-term studies including subsequent pregnancies are necessary for a true picture of post-abortion complications.

### 2 MILLION Abortions in 27 Years

Czechoslovak experience is based on some 2,000,000 legal first trimester abortions (voluntary induced abortions are not permitted after the twelfth week), carried out over a period of 17 years. During the first ten years there were 20 maternal deaths connected with the procedure, Dr. Kotásek said, (two per 100,000); since then the rate has decreased.

However, he said, a detailed Prague study concludes that only 57 per cent of pregnancies following induced abortion were carried to term. The spontaneous abortion rate was 2.2 times the "normal" incidence. While reports of cervical incompetence was a rare cause of second trimester miscarriages before legalization of abortion in Czechoslovakia in 1958, ten years later it was reported two to five times more frequently in women who had had interruptions than those who had not. "A very high standard of antenatal care from the end of the first trimester for all women who have had a previous artificial termination of pregnancy is advisable," he said.

### Czechs Smoking More

Medical Tribune World Service

PRAGUE.—Despite a policy of no tobacco advertising, despite antsmoking clinics, and despite the publicity given to the harmful effects of the weed, cigarette smoking continues to increase in Czechoslovakia. Cigarette sales have tripled since 1946 and now amount to 27 billion annually, or 1900 per capita.

Much of the increase is accounted for by women and children. According to an investigation recently published by the Institute of Health Education in Prague, boys now try their first cigarette before they are ten, girls between the ages of twelve and 13. By the time they are fifteen, every second youngster has at least tried smoking, and every fourth smokes occasionally.

Officials attribute 30,000-40,000 deaths a year, about a fifth of all deaths, to smoking-connected causes.

Prematurity is more frequent after abortion, he said, in some cases double the normal incidence. In Czechoslovakia, one study put the increase at 40 per cent following one interruption, 70 per cent after more than one. No increase in congenital malformation has been noted in Czechoslovakian, however.

Extramarital pregnancies also may double, Prof. Kotásek reported. One Czechoslovak clinic recorded an increase of 130 per cent compared with the years immediately before abortion was legalized.

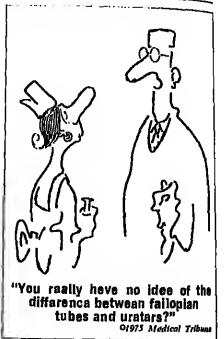
Although it is impossible to obtain complete figures on sterility following

abortion, since women who do not wish children do not attend fertility clinics, Czechoslovak authors report a sterility rate of 1.3-7 per cent following induced abortion, compared with 2-5 per cent reported elsewhere.

### Sex Attitudes Changed in 30%

Functional sexual disorders are also a common late consequence. Of 200 women who were examined psychologically by one Czechoslovak author, in connection with interruption of pregnancy, more than 30 per cent admitted lower or negative attitudes towards sexuality.

Significant increases in the duration of the third stage of labor and in retained and adherent placenta have also been reported in women who had previously had induced abortions, Dr. Kotásek said.



Wednesday, February 5, 1975

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MEDICAL TRIBUNE

## IFRP Intruterine Membrane Disappointing

Medical Tribune World Service

Buenos Aires.—Discouraging results with a new intrauterine device developed by the International Fertility Research Program (IFRP) were reported here.

Bleeding was the primary problem with the pleated-membrane IUD, or intrauterine membrane (IUM). Dr. Michael N. Thomas told the Eighth World Congress on Fertility and Sterility.

Fourteen of the 119 women tested had the IUM removed because of bleeding, said Dr. Thomas, research assistant with the IFRP of the Carolina Population Center, University of North Carolina.

After three months, the net cumulative rate of bleeding/pain removals was

5.9 per 100 women, the pregnancy rate was 1.1, and the expulsion rate was 2.0.

The pleated-membrane IUD is a polyethylene device containing 15 per cent barium sulfate. It is approximately 1.5 inches long and 0.005 inch thick. The pleats were designed to increase the device's ability to react to uterine contractions. The IUD is strengthened by a "wishbone" reinforcement molded on the bottom.

About half of the study group were less than 25 years old and about 80 per cent had one or two children.

After the early setbacks, the IFRP investigators modified the inserter and have been using a similar IUD made of Alathon 20.

"The ongoing studies are designed

to not only to develop an improved IUD," said Dr. Thomas, "but also to develop hypotheses concerning the mechanism of action which leads to increased or decreased bleeding in all IUDs."

"

Cauthors were Drs. Leonard Lmufe, of the Western Pennsylvania Hospital, Pittsburgh, and Robert Wheeler, of the Battelle Memorial Institute, Richland, Wash.

### Latex-Leaf IUD

► Israeli doctors, on the basis of initial results, pronounced the Anderson-Ansell latex-leaf IUD superior to the Lippes loop and Dalkon shield in some respects—notably in low pregnancy rates, Dr. E. Sadovky, of the Hadassah University Hospital, Jerusalem, re-

ported. Its softness was expected to prevent decubitus and irritation of the uterus, with consequent low removal rates due to bleeding and pain. But this did not prove to be the case.

### High Removal Rate

The removal rate was 37.1 per 100 woman-years, compared with 28.9 for the Lippes loop and 14.1 for the Dalkon shield, and Robert Wheeler, of the Battelle Memorial Institute, Richland, Wash.

The pregnancy rate, however, was only 1.4, against 12.3 and 4.2 respectively with the two other devices.

The expulsion rate was 4.2 against 12.3 and 1.43.

The investigators commented that the low pregnancy rate, the ease of insertion, and the fact that in some patients with high parity and with slightly enlarged uteri there is relatively little side-effect bleeding, make it worthwhile to try the latex-leaf IUD in larger groups of women.

Cauthors were Drs. W. Z. Polshuk, S. O. Anteby, S. Yarkoni, and Y. Aboulafia.

### confirmed by clinical studies in four geographically separated sleep research laboratories\*

Using n-14-night protocol, involving eight insomniacs and eight normal subjects, four studies confirmed the sleep-maintaining effectiveness of Dalmane (flurazepam HCl) and the reproducibility of this response. On average, one 30 mg capsule reduced number of awakenings by 31.3% and wake time by 52.6%. In all these studies, Dalmane induced sleep rapidly, an average within 17 minutes; reduced nighttime awakenings; and provided, on average, 7 to 8 hours of sleep without repeating dosage.<sup>1-3</sup>

### Dalmane (flurazepam HCl) induces and maintains sleep, with relative safety

Dalmane is generally well tolerated; morning "hang-over" has been relatively infrequent. While dizziness, drowsiness, lightheadedness and the like have been noted most often, particularly in the elderly and debilitated, physicians should be aware of the possibility of more serious reactions, as noted in the Complete Product Information.

Before prescribing Dalmane (flurazepam HCl), please consult Complete Product Information, a summary of which follows:

**Indications:** Effective in all types of insomnia characterized by difficulty in falling asleep, frequent nocturnal awakenings and/or early morning awakening; in patients with recurring insomnia or chronic insomnia associated with mild and moderate chronic medication reducing restful sleep. Since insomnia is often transient and intermittent, prolonged administration is generally not necessary or recommended.

**Contraindications:** Known hypersensitivity to flurazepam HCl.

**Warnings:** Caution against hazardous occupations requiring complete mental alertness (e.g., operating machinery, driving). Use in women who are or may become pregnant only where potential benefits have been weighed against possible hazards. Not recommended for use in patients with a history of drug abuse or alcoholism. Individual tolerance to the hypnotic dependence have not been reported on recommended doses; use caution in administering to addiction-prone individuals or those who might increase dosage.

**Precautions:** In elderly and debilitated, initial dosage should be 15 mg at night. If tolerance develops, increase dose to 30 mg at night. If tolerance does not develop, increase dose to 45 mg at night. If combined with other drugs having hypnotic or CNS-depressant effects, consider potential additive effects. Employ usual precautions in patients who are severely depressed, or with latent depression or psychoses. Use with caution in patients with impaired renal or hepatic function tests as advised during repeated therapy. Observe usual precautions in presence of impaired renal or hepatic function.

**Adverse Reactions:** Drowsiness, drowsiness, lightheadedness, headache, dizziness, somnolence, sedation, lethargy, disorientation and coma, probably indicative of drug intolerance or overdose, have been reported. Also reported were headache, hypertension, tachycardia, hypertension, apprehension, irritability, weakness, palpitations, chest pain, body and joint pain and GU complaints. There have been rare occurrences of sweating, flushes, difficulty in focusing, blurred vision, hiccups, fainting, fallas, dizziness, dry mouth, tachycardia, pruritis, skin rash, dry mouth, bitter taste, excessive salivation, asthenia, euphoria, depression, altered speech, confusion, direct bilirubin and alkaline phosphatase elevations. Rash, edema, e.g., edema, stimulation and hyperactivity have also been reported in rare instances.

**Individualization for maximum beneficial effect:** Adults: 30 mg initial dose; 15 mg thereafter in some patients. Elderly or debilitated patients: 15 mg initially until response is determined. Supplied: Capsules containing 15 mg or 30 mg flurazepam HCl.

Oce 30-mg capsule a.s. — usual adult dosage (15 mg may suffice in some patients).  
One 15-mg capsule a.s. — initial dosage for elderly or debilitated patients.

- induces sleep within 17 minutes, on average
- reduces nighttime awakenings
- sustains sleep 7 to 8 hours, on average, without repeating dosage

## No Ideal Topical Drug Seen for Tinea Pedis

Medical Tribune World Service

Chicago.—Patients who present with symptoms of athlete's foot are best treated by basic hygienic measures and steps to keep the feet cool, such as loose shoes, sandals, or leaving the shoes off frequently, according to Dr. Leon Goldman, Professor and Chairman of the Department of Dermatology, University of Cincinnati.

"In spite of extensive advertisements in the lay press and television, there is still no ideal type of topical medication for athlete's foot," he told the American Academy of Dermatology.

Renewed attention is being given to topical griseofulvin. With suitable vehicles, the medication may have some value, but further control studies are needed, Dr. Goldman said. Newer synthetic agents available to the practitioner include haloprogin, miconazole nitrate and silver sulfadiazine.

Topical medications should be continued for some time after symptoms improve, unless they are irritating or sensitizing, Dr. Goldman recommended.

Preventive measures should include "simple drying of the skin without using the towel as a saw to tear the skin between the toes," he added. Bland powders are helpful.

He pointed out that the combination of poor hygiene through heavy, sweaty socks, especially nylon and wool, and heavy shoes provides favorable moist conditions for the continued growth of the fungus infection.

sleep  
is usually maintained with fewer nighttime awakenings...  
a consistent benefit of

**Dalmane**  
(flurazepam HCl) proved by a  
17-night clinical study in the sleep research  
laboratory evaluating effectiveness in  
insomnia patients!

Eight patients received no medication on nights 1-4; Dalmane (flurazepam HCl) or placebo on nights 5-9; crossover capsule, nights 10-14; and no medication, nights 15-17. While placebo had no significant effect on sleep maintenance, Dalmane reduced nighttime awakenings by 33.7% when given on nights 5-9, 43.7% on nights 10-14. When four control subjects received placebo on the 10 "dry" nights, awakenings increased 11.5% over baseline.\*

## Mexicans Describe Fatal Muscle Hypertonia

*Medical Tribune World Service*

MEXICO CITY—An unusual neuromuscular disorder, previously undescribed, consisting of severe generalized muscle hypertonia during wakefulness and normotonia during sleep, has been reported by Mexican investigators.

Drs. José María Cantú, of the genetics section, biology of reproduction division, and Alfredo Cuellar, head of the department of Internal Medicine, Hospital de Pediatría, Centro Médico Nacional, Mexican Social Security Institute, described one case in which the condition manifested itself at birth and remained unchanged until the infant's death two and one-half months later from bronchopneumonia.

The body stiffness was such that the patient could be moved from dorsal

decubitus to an erect position by supporting him only by his feet and at the nape of the neck. The arms were in flexion, the hands strongly clenched, and the feet in hyperflexion. He remained in that state all the time he was awake; after falling asleep, he gradually relaxed.

### 6 Sibs Affected

Dr. Cantú concluded from the family study that homozygosity of a mutant recessive gene located in an autosomal was responsible for the disease. Six sibs of both sexes were indirectly ascertained to have been similarly affected and to have died of the disorder between two and four months of age. The parents were second cousins and had 19 other children.

Attempts to correct the hypertonia with intravenous administration of calcium gluconate two days after birth had no effect, nor did methocarbamol intramuscularly at two months of age, but a week later, a single dose of benzodiazepine produced a mild relaxation.

"

The neuromuscular impairment had resulted in fetal hypokinesia. After the birth of the second affected child, Dr. Cantú said, the mother was able to predict which of the subsequent children would be likewise affected on the basis of the weak fetal movements she felt.

Also present in the infant studied were pharyngoesophageal dyskinesia and cardiopulmonary distress, complicated by bronchopneumonia unresponsive to treatment.

**Merrell**

### Tenuate® (diethylpropion hydrochloride N.F.)

**DRUG SUMMARY**  
**INDICATIONS:** Tenuate is indicated in the treatment of obesity, especially as a corrective measure to prevent or reduce the risk of weight reduction based on dietary restriction. The family of drugs to which Tenuate belongs has been used against possible risk factors inherent in their use.

**BUDGETARY COTTONIC:** Advanced arteriosclerosis, hypertension, cerebral arteriosclerosis, hyperthyroidism, and bronchopneumonia. Patients with a history of drug abuse.

During or within 14 days following the administration of monoamine oxidase inhibitors, (phenothiazines may result in hypertension).

It is recommended that the recommended dose should not be exceeded in any case, and the drug should be discontinued. Tenuate should not be given to patients with cardiovascular anomalies such as essential hypertension or coronary artery disease. The patient should therefore be cautioned accordingly.

There is no evidence that Tenuate has any stimulant and pharmacologic similarities to amphetamine drugs, and it is not a stimulant which, in the opinion of certain drugs, may be derived from the use of Tenuate.

Patients who have discontinued the drug in many times that recommended dose, and those who have taken high dosage administered results in adverse effects and ECG. Non-identifications of chronic hypertension with arterial hypertension, cerebral arteriosclerosis, cerebral hemorrhage, infarction, hyperthyroidism, and bronchopneumonia. The use of Tenuate in children under 12 years of age is contraindicated.

It is recommended, although not proven, that studies have not indicated serious effects. The use of Tenuate in pregnant women has been reported to be associated with the potential benefit of reduced risk of birth defects.

**See in Children:** Tenuate is not recommended for use in children under 12 years of age.

**ADVERSE REACTIONS:** Tenuate has caused an increased heart rate, hypertension, tachycardia, and hypotension. Tenuate for patients with hypertension or mild hypertension should not be administered to patients with hypertension.

**INTERACTIONS:** In diabetic mellitus may be altered in association with the use of Tenuate and the antidiabetic drugs.

Tenuate may decrease the hypoglycemic effect of insulin. The first amount insulin should be administered or injected with caution. Tenuate may increase the risk of overeating. Reports suggest that Tenuate may increase consumption of alcohol. Patients receiving Tenuate should be carefully monitored. Titration of doses of Tenuate may be necessary.

**ADVERSE REACTIONS:** Confusion, headache, hypertension, tachycardia, blood pressure, pruritis, etc., although rare, have been reported.

In its ECG of a healthy young male after ingestion of Tenuate, there was a slight increase in the amplitude of the Control Nerve System. Overstimulation, sweating, tachycardia, hypertension, tachycardia, hypertension, anxiety, palpitation, arrhythmia, and tachycardia, etc., are a few other side effects which have been reported.

**ADVERSE REACTIONS:** Dryness of the mouth, constipation, diarrhea, nausea, vomiting, abdominal cramps, diarrhea, constipation, etc., are also well known side effects.

**ADVERSE REACTIONS:** Headache, hypertension, tachycardia, hypertension, tachycardia, blood pressure, pruritis, etc., although rare, have been reported.

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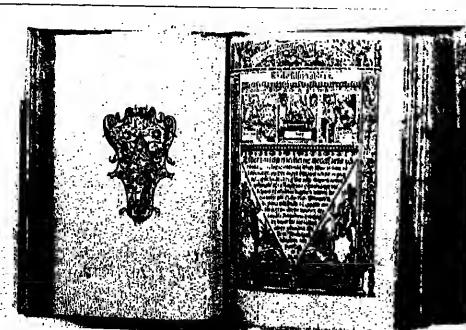
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## Penn Hospital Library Gets Refurbishing

PENNSYLVANIA Hospital in Philadelphia has the country's oldest medical library, formally founded in 1726. The library contains what is believed to be the most extensive medicohistorical collection owned by a hospital and one that is distinctive in its continuity as a working medical library for the century 1752-1852. The hospital is using a grant from the Department of Health, Education, and Welfare, the Public Health Service, and the National Library of Medicine to reorganize the archives. Shown here are some items from the collection.



Wednesday, February 4

Wednesday, February 5, 1975

MEDICAL TRIBUNE

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Cover from *Arte Medicale*, by Cesario Hesil, written 1534. The book discusses the works of Claudius Galen. At right is the cover page from a medical treatise written in 1523 and bound within the book.



1970: coronary care unit.

## Human Spirit's Triumph Depicted In Medical Center Photo Exhibit

"THE MEDICAL CENTER PERCEIVED," a major exhibition of photographs taken at the Albany Medical Center by photographer Dan Budnik during the years 1959-74, was recently on display at the Art Gallery of the State University of New York at Albany. Sponsored by the center in observance of the 125th anniversary of the founding of Albany Medical Center Hospital, the 134 photographs selected from among 19,000 that Mr. Budnik took over the 15-period reflect the theme of the triumph of the human spirit in the face of pain and adversity. Shown here are a few of the photos from the exhibit.



1962: heart surgeon.



1974: burn unit.



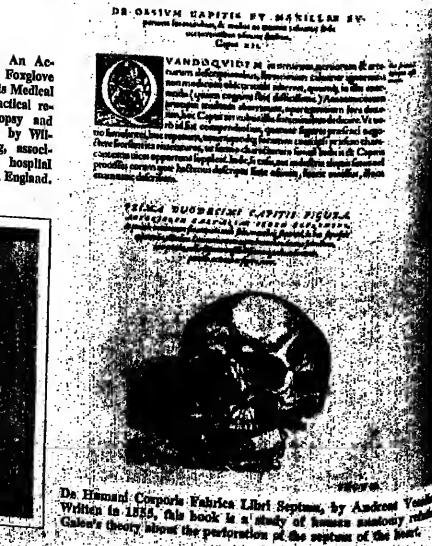
1973: resuscitation in the emergency room.



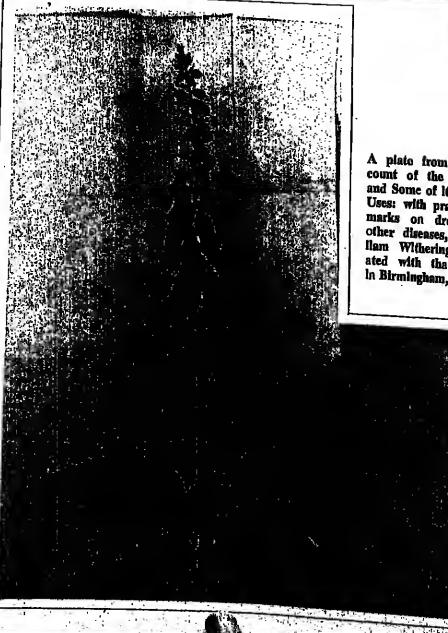
1965: freshmen medical students in neuroanatomy laboratory.



Library personnel and students are working, left, to dust, inventory, and code as well as catalogue the library's collection. The library contains 150 volumes as well as publications and documents.



A plate from *An Account of the Glove and Some of Its Medical Uses*: with practical remarks on dropsy and other diseases, by William Withering, associated with the hospital in Birmingham, England.



*De Humanis Corporis Fabbris Libri Septem*, by Andrea Vesalius. Written in 1543, this book is a study of human anatomy which Galen's theory about the function of the septum of the heart.







## High-Risk Target Suggested In Urinary Tract Screening

Medical Tribune Report

**SAN FRANCISCO**—Which children are at risk for urinary tract infections? How can these infections be detected? And how should they be treated?

Dr. Patrick H. McLin, one of the speakers who discussed these questions at the annual meeting of the American Academy of Pediatrics here, described a mass screening program in which 86 of 13,148 children tested were found to be infected.

All were girls, said Dr. McLin, who estimated that 5 per cent of all girls will have trouble with urinary tract infections by the time of puberty.

The purpose of the screening, which was performed in the home by parents with a dip slide and sent back to schools for evaluation, was to determine morbidity as well as the incidence of actual or potential pyelonephritis. No pyelonephritis was detected.

Of those with infections, 44 per cent had a history of prior urinary tract disease, Dr. McLin reported. Forty per cent had symptoms of daytime wetting, frequency, urgency, or dysuria—indications that the infection was "hidden only because no one was watching."

### Many Unaware of Infections

Since many of the mothers were aware of the symptoms but not of the infections, an educational effort should be made to teach mothers what is abnormal, he suggested.

Of the 86 with infections three had reflux, but no evidence of scarring was found.

Dr. McLin put the screening cost at \$21,700, or about \$1.65 per child, not counting the cost of labor, which was volunteered. The cost per infection was approximately \$250—indicating that if mass screening is to be feasible, a target population should be defined, he said.

This population should exclude boys and should include only high-risk girls in the kindergarten through ninth-grade age groups, he said. High-risk girls, he added, would include those with a high rate of absences.

Dr. James E. Keeton of Jackson, Miss., said that urinary tract infections appear to be less frequent among black girls than among white and also less serious, with fewer abnormalities on intravenous pyelograms.

He also said that the incidence of reflux appears to be low and confined to preschool girls, with a high incidence of spontaneous resolution.

Dr. Joseph Y. Dwozkin of Buffalo, N.Y., observed that the infections seen by a pediatric urologist are usually more serious than those seen by a pediatrician since referrals are usually made only after two or more recurrences. The largest group of patients is in the three-to-four-year range,

### Helmet Study Set

**SAN ANTONIO, TEXAS**—Southwest Research Institute here has been selected by the American Society for Testing and Materials to conduct a two-year study of football head and neck injury hazards with the aim of developing greater headgear protection.

he said, and 75 per cent are under seven years.

Unless the patients are on continuing antibiotic therapy, 50 to 65 per cent will have a recurrence within six months and 70 to 85 per cent within one year, he continued.

In one group with recurrent infections, 44 per cent had reflux and 25 per cent pyelonephritis, Dr. Dwozkin reported.

The incidence of reflux suggests that urethral manipulation should be part of the treatment for such patients, he remarked, and the incidence of pyelonephritis that investigation should be made earlier than usual. He suggested a workup after the first infection.

## 'At Home' Insight Into Heart Surgery Impact

**Students from Stanford University Medical School visited a woman recovering from heart surgery "at home" recently for an insight into the impact such an event has on patients and their families, emotionally and financially. Left to right: Leon McGann, Assistant Professor; Julie Fay, student; Edie Turner, former patient; John Sanchez, student; David Kuplin, Ph.D., director of clinical social work at Stanford; and Holly Stegmann, student.**

## Space age microbial power BETADINE ANTISEPTICS

PHOTOGRAPH BY ROBERT STONE FOR THE NEW YORK TIMES

**BETADINE Skin Cleanser and BETADINE Ointment** provide the same broad-spectrum microbial action as BETADINE microbicides chosen by NASA for the Skylab mission and for Apollo 11/12/14 splashdowns. They kill gram-positive and gram-negative bacteria (including antibiotic-resistant strains), fungi, viruses, protozoa and yeasts... virtually nonirritating and nonstinging... nonstriking to skin and natural fabrics.

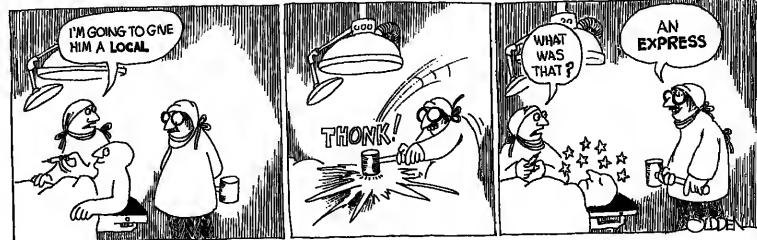
**BETADINE Skin Cleanser** deters the skin of patients with common pathogens, including *Staph. aureus*... helps prevent recurrence of acute inflammatory skin infections and spread of infection in acne pimples... may be used routinely for general skin hygiene (In the rare instance of local irritation or sensitivity, discontinue use in the individual).

**BETADINE Ointment** kills pathogens in skin and wound infectious... indicated in infected stasis ulcers and to help prevent infection in burns, lacerations and abrasions. Not greasy or sticky... the treated area can be bandaged. **Purdue Frederick**



Wednesday, February 5, 1978

## Clinical Trials



## Doctors Slight Prevention Mission—Nader

Continued from page 1

1940s when physicians began saying that the best way to prevent highway-induced trauma is to design safer cars.

These pioneering reports eventually led to formation of Physicians for Automobile Safety, and a number of physicians are speaking out on the need to take action and mold public opinion, he agreed.

But Mr. Nader believes the profession in general has not organized itself to develop the new roles in preventive medicine for which physicians are "uniquely fitted" or to give these roles status and resources.

"Doctors who are crusaders are looked on in a perjorative way," he commented.

### 'Little Attention' to Pollutants

As an illustration of how the profession has "not taken the lead" in preventing illness and injury, Mr. Nader said that more and more research is being done on respiratory diseases in such areas as improvement of surgical techniques and retardation of spread, but "very little attention" is being paid to the epidemiologic role of industrial pollutants.

High on his list of "generic disease sources and generic trauma sources" are potentially harmful household products, equipment such as power lawn mowers, and such air and water contaminants as lead, mercury, synthetic industrial chemicals, and asbestos.

What action on the part of the medical profession does he recommend? "This requires fundamental expansion of role conception so that hundreds if not thousands of physicians will be working in areas that have no relation to immediate treatment and diagnosis," Mr. Nader said.

### 'Psychiatrists Without Patients'

"Physicians without patients are what we need in great numbers—physicians who would cooperate with other professional people like lawyers and engineers to try to redesign our technological environment to save life."

These physicians, he added, would work in public-health advocacy outside of government to make public-health efforts inside government "better than they are." They would also monitor government and corporate activities to see that established public-health policies are actually put into practice.

The role of the physician in legislative conferences is probably more persuasive than that of any other professional," he said.

MEDICAL TRIBUNE

by Oldden

MEDICAL TRIBUNE has campaigned since 1961 for highway safety, use of seat belts, and improved car design. Among the people honored by MEDICAL TRIBUNE for their efforts in the field of auto safety have been Dr. Fletcher D. Woodward, the Virginia ophthalmologist whose 1948 report on principles for reduction of deceleration injuries is considered a landmark; Dr. Horace E. Campbell, the Colorado surgeon who pressured manufacturers for better packaging of passengers; and Ralph Nader.

They would work, he summed up, in critical areas of "preventive medicine, health insurance, hospital practices, consumer protection laws." And they would "indicate into the area of technology assessment—assessing the consequences of technology long before something reaches the market."

Ralph Nader speaking at New York University School of Medicine.



## Psychiatric Drug Use Urged In Patients With Severe Burns

Medical Tribune World Service

patients, using daily doses of 10-40 mg. dinoprostone at intervals of one to eight days for an average of three weeks.

Chlorpromazine, used in 41 cases, had a more pronounced antidepressive effect, but this was not felt until the second week. The anxiolytic effect became apparent within the first two days, however, while the most conspicuous improvement was registered in sleep disorders. The drug was given in daily doses of 15-60 mg. for a period of from two to eight weeks.

### Other Drugs Used

Prothiaden—a Czech imipramine-like drug, was given in 12 cases of severe depression, in daily doses of 75 mg. for an average of three weeks, with improvement in all cases at the end of the second week.

Imipramine was tested in eight cases. Prothiaden was given in 12 cases of severe depression, in daily doses of 75 mg. for an average of three weeks, with improvement in all cases at the end of the second week.

Chlorpromazine in injections of from 50-100 mg. was found useful in cases of psychomotor unrest. Thioridazine was tolerated by elderly patients, but was not as effective in curing psychomotor unrest in these cases as prothiaden. Occasional administration of psychomimetics did not produce significant change.

And he sees it as "near the level of the axioms" to conclude that no profession will be "even minimally responsible for its true duties unless it also has a system of evaluation outside of itself."

Look at lawyers "who have messed up our court system . . . and corrupted our political processes," he suggested, or at architects responsible for New York structures "that look as if they were built by Con Edison."

So again Mr. Nader called for "public-interest-policy physicians and institutions" that would raise questions about allocation of the medical profession's resources, the profession's concern with both industrial and governmental policies, and participation of

psychomimetics in the improvement of the anxiolytic-abuse syndrome occurred at a daily dose of 75 mg. during the third week of administration.

If there's good reason  
to prescribe  
for psychic tension...

Prompt action  
is a good reason  
to consider Valium®  
(diazepam)



When, for example, despite counseling,  
tension and anxiety continue to produce  
distressing somatic symptoms

When your patient's somatic complaints are associated with tension and anxiety and you have tried counseling and other supportive measures alone, you may decide to prescribe psychotherapeutic medication. If you do, the question remains: which one?

Valium (diazepam) is one to consider closely. One that works promptly as an adjunct to continued supportive measures. One that generally produces significant improvement within the first few days of therapy, although some patients may require more time for a clearcut response.

Prompt action. One good reason to consider Valium.

And should you choose to prescribe Valium, you should also keep this information in mind. Valium is usually well tolerated. Patients taking Valium should be cautioned against operating dangerous machinery or driving. Therapy with Valium should normally be continued until the patient's psychic tension symptoms have been reduced to tolerable levels.

Please turn page for a summary of product information.

**Valium®**  
(diazepam)

2-mg, 5-mg, 10-mg tablets

ROCHE

# Valium<sup>®</sup> (diazepam)

Before prescribing, please consult complete product information, a summary of which follows:

**Indications:** Tension and anxiety states; somatic complaints which are concomitants of emotional factors; psychoneurotic states manifested by tension, anxiety, apprehension, fatigue, depressive symptoms or agitation; symptomatic relief of acute agitation, tremor, delirium tremens and hallucinosis due to acute alcohol withdrawal; adjunctively in skeletal muscle spasm due to reflex spasm to local pathology, spasticity caused by upper motor neuron disorders, athetosis, stiff-man syndrome, convulsive disorders (not for sole therapy).

**Contraindications:** Known hypersensitivity to the drug. Children under 6 months of age. Acute narrow angle glaucoma; may be used in patients with open angle glaucoma who are receiving appropriate therapy.

**Warnings:** Not of value in psychotic patients. Caution against hazardous occupations requiring complete mental alertness. When used adjunctively in convulsive disorders, possibility of increase in frequency and/or severity of grand mal seizures may require increased dosage of standard anticonvulsant medication; abrupt withdrawal may be associated with temporary increase in frequency and/or severity of seizures. Advise against simultaneous ingestion of alcohol and other CNS depressants. Withdrawal symptoms (similar to those with barbiturates and alcohol) have occurred following abrupt discontinuance (convulsions, tremor, abdominal and muscle cramps, vomiting and sweating). Keep addiction-prone individuals under careful surveillance because of their predisposition to habituation and dependence. In pregnancy, lactation or women of childbearing age, weigh potential benefit against possible hazard.

**Precautions:** If combined with other psychotropics or anticonvulsants, consider carefully pharmacology of agents employed.

drugs such as phenothiazines, narcotics, barbiturates, MAO inhibitors and other antidepressants may potentiate its action. Usual precautions indicated in patients severely depressed, or with latent depression, or with suicidal tendencies. Observe usual precautions in impaired renal or hepatic function. Limit dosage to smallest effective amount in elderly and debilitated to preclude ataxia or oversedation.

**Side Effects:** Drowsiness, confusion, diplopia, hypotension, changes in libido, nausea, fatigue, depression, dysarthria, jaundice, skin rash, ataxia, constipation, headache, incontinence, changes in salivation, slurred speech, tremor, vertigo, urinary retention, blurred vision. Paradoxical reactions such as acute hyperexcited states, anxiety, hallucinations, incrcased muscle spasticity, insomnia, rage, sleep disturbances, stimulation have been reported; should these occur, discontinue drug. Isolated reports of neutropenia, jaundice; periodic blood counts and liver function tests advisable during long-term therapy.

**Dosage:** Individualize for maximum beneficial effect. **Adults:** Tension, anxiety and psychoneurotic states, 2 to 10 mg b.i.d. to q.i.d.; alcoholism, 10 mg t.i.d. or q.i.d. in first 24 hours, then 5 mg t.i.d. or q.i.d. as needed; adjunctively in skeletal muscle spasm, 2 to 10 mg t.i.d. or q.i.d.; adjunctively in convulsive disorders, 2 to 10 mg b.i.d. to q.i.d. **Geriatric or debilitated patients:** 2 to 2½ mg, 1 or 2 times daily initially, increasing as needed and tolerated. (See Precautions.) **Children:** 1 to 2½ mg t.i.d. or q.i.d. initially, increasing as needed and tolerated (not for use under 6 months).

**Supplied:** Valium<sup>®</sup> (diazepam) Tablets, 2 mg, 5 mg and 10 mg; bottles of 100 and 500. All strengths also available in Tel-E-Dose<sup>®</sup> packages of 100.

**ROCHE**  
Roche Laboratories  
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Nutley, New Jersey 07110

## Wrist Prosthesis Simulates Movement of Normal Joint

Medical Tribune Report

TUSCON, ARIZ.—A completely mobile wrist prosthesis of metal and plastic, which closely resembles the bidirectional movement of the normal joint, has been designed and successfully implanted in two patients in a collaborative effort here by members of the Department of Surgery and Mechanical Engineering at the University of Arizona.

According to a preliminary report of the work by Dr. Robert G. Volz, orthopedic surgeon and Assistant Professor of Surgery at the university's College of Medicine, the replacement is not a ball-and-socket mechanism, which would cause unnatural movement, but half of a toroidal sector (shaped like a tire cut in half), fitted with an elliptical cup. Like the normal wrist, the combination allows for motion in two planes only—up-and-down (flexion/extension) and side-to-side (radial and ulnar deviation).

The Arizona team noted that patients have been able to lift a 40-pound suitcase and squeeze a ball tightly.

Although clinical data is far from complete, the musician is already back at the organ, and the collaborative team is optimistic that the replacement will permit more normal life activity.

Because of the use of methyl methacrylate cement, which is used extensively in hip-joint replacements but rarely elsewhere, the University of Arizona group has had to obtain special permission from the FDA for each operation performed so far.

Clinical data is still incomplete, the Arizona team said, but the operation may be indicated for many patients with crushed or severed wrists, and for persons with rheumatoid arthritis of the wrist without metacarpal, phalangeal, or interphalangeal involvement. The prosthesis would probably not be useful in replacing the wrist of an arthritic patient with appreciable hand or finger involvement.

One of the first patients to receive

the operation was a printer and part-time organist whose left hand was badly crushed in an accident. The two sections of the prosthesis were cemented to the radius on one end and the bones of the second and third fingers on the other. The metal portion is made of Vitallium, an alloy of cobalt chromium, which is not rejected by the body.

Both halves are held in place by methylmethacrylate. Three bones in the hand—the lunate, navicular and the head of the capitate—were resected to make room for the prosthesis.

Unlike most other joints in the body, which must withstand mostly forces of compression, the wrist must be able to take forces of distraction as well—the tendency of the joint to be pulled apart when a suitcase is lifted, for example.

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Asking in the design of the prosthesis were Drs. Marvin D. Marin, Professor of Mechanical Engineering and Michael J. Pitt of the department of radiology. Mr. Richard Perry, a student in the Medical College, was main part of the team.

## 'Germfree' Helmet



Hospital personnel must wear special helmets in the University of Tennessee's "germfree" surgical suite designed for bone infarct surgery and total hip replacement. Dr. Lewis D. Anderson, Professor of Orthopedic Surgery, also uses the suite to study orthopedic aspects of sickle cell disease.

## Tribune Economic Analysis

**Astronomic Rise in US Borrowing Indicated Ahead**

By ELIOT JANEWAY  
Consulting Economist

All the various "dos" under consideration as remedies for the present disaster of accelerating slump and continuing inflation cost money. But even if the bottom were not falling out of the economy, only one way of finding new money would be open to the government: borrowing still more.

As matters stand, the collapse in commitment-making is forcing a companion collapse in revenue collections. Higher levels of spending, against lower levels for collections and higher levels for refunds, point to escalations in federal government borrowings of astronomic proportions.

The most massive federal pump priming for housing will not be sufficient as long as the cost level of funding and financing buildings is prohibitively higher than the income level of rents and as long as the required level of rents is prohibitively higher than the proportion of family budgets available to pay them.

Despite brave talk of keeping Federal disbursements down to \$300 billion a year, they are headed closer to \$400 billion.

Government actions calling for Treasury borrowing are bound to send the economy on a collision course with the money markets. Interest rates are now conditioned to rise with government needs for money. The shock of absorbing higher interest rates just when the collapse of the economy is signaling the need for bargains in borrowing costs would finish off the wounded securities markets.

Are auto prices going to be forced down? I say yes. How else are you going to unload them. But what do you say?

Dr. E. E., Chicago

Yes, they will. But there's many a alp between price cutting and unloading. Ford has taken the lead by marking the Pinto down, but with no results as yet. The trouble goes back to 1973's phony boom. So euphoric was the industry's mismanagement that it failed to realize it was doing three years business in one. I would esuton against oversimplifying. Detroit's mismanagement has left dealers loaded with small cars no one wants, but short of higher priced cars.

Can we expect an upturn by fall? If so, what will be the factors that will bring it about?

Dr. Frederick W., New York

Not if the government continues to sit around and wait for it. But if Ford begins to act like a President and overrules Kissinger's veto or a confrontation, an upturn would follow within weeks after U.S. political initiatives knock the price of oil down. There's no way out short of using political muscle to knock down the price of fuel, and with it, the cost of money.

## New US Role Offers Hope on Traffic Deaths

Continued from page 21

training in life support techniques including cardiopulmonary resuscitation, defibrillation, administration of drugs and intravenous fluids—is in even greater limbo. In Illinois, the 460 paramedics are operational mainly in the Chicago area, only in those communities that can afford to fund them as part of the telemetry program. Yet, many observers feel that it is the rural areas that really need paramedics although they are concerned whether the occasional use of these specialized skills is sufficient to maintain proficiency.

• **Absence of medical leadership.** "In Illinois I was it," says Dr. Boyd who deplores what he considers a crucial lack of doctors at the forefront of EMS development. "It's one thing to have a doctor from the medical society on the advisory committee," he says briskly, "and quite another to find an active leader."

Dr. Bill Henry, a family practitioner in rural Twisp, Washington, seconds Boyd's complaint. "EMS development is being done by fire departments and Comprehensive Health Planning agencies, completely outside the control of physicians because of their alienation and refusal to take any responsibility," he criticizes. "I can identify four physi-

cians out of 125 in my area who are actively involved. I don't see how you can have a successful EMS system without some input from the guys doing the blood and guts work."

When Dr. Henry came to Twisp four years ago, he was confronted with a frontier-town brand of EMS. "When there was an emergency," he recalls, "I used to go into the bar and pick out the guy who looked best and then get the water maintenance truck."

Trained 30 Technicians

After two people died unnecessarily, Henry began to turn things around. First, he garnered some money and then bought two ambulances, one equipped with telemetry. He trained 30 emergency medical technicians (EMTs) setting up a special mountain rescue squad who parachute into the mountains, start IVs, and clean heliports so Dr. Henry can land by helicopter.

"I train them in the ER and even have them set broken bones," he explains. "This is the kind of exposure they need to be adequate EMTs. But big hospitals are too scared liability-wise to have them in there."

Another E.P. who has played a leadership role is Dr. Richard Ladenheim from Anna, Illinois. "When he criticizes," he says, "he can identify four physi-

cians out of 125 in my area who are actively involved. I don't see how you can have a successful EMS system without some input from the guys doing the blood and guts work."

They don't feel qualified and they are always worrying about lawsuits. The only ones who take special training in emergency medicine are the ones who don't need it."

In a unique approach to solving the problem of ambulance service for rural Illinois' Johnson and Pope Counties, Dr. Ladenheim lent his support to a controversial plan to train inmates at the minimum-security Vienna Correctional Institution to provide the 11,500 people of the area with 24-hour coverage. So far, 200 men have been trained and there have been no problems, but Dr. Ladenheim sighs, "Getting the public to accept it is quite a problem."

The plan calls for the inmates to continue working in the area once they are discharged. "There's a lot of racial tension in this area," observes Dr. Ladenheim. "To suddenly ask people in take in not only blacks but black inmates is going to take a lot of public education. Each doctor is going to have to talk to his patients as they come in. Of course, once John Jones says 'they saved my life,' everything will be okay."

